

# **APPENDIX H**

Appl. No. 10/781,979  
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Group Art Unit 1638  
Examiner: Anne R. Kubelik

axmi-008	MSPMFTSSTKNTLKIETTDYEIDQAAISIECMSDEQNPOQEKIMLWDEIKLAKQLSQSRNL	60
cry19Aa-orf2	VNFMLTSGAKNMLKLETTDYEIDQMANAIENMSGEQYSQEKMMQWHDIKYAKQLSQARNL	60
crybun2orf2	---MFISNIKNTLKIETTDYEIDQAAISIECMSNEHSSKEEMMLWDEVKQAKQLSWSRNL	57
crybun3orf2	---MFTNGTKNTLKIETTDYEIDQAAISIECMSDEHSPKEKMMLWDEVKRAKLLSQSRNL	57
cry4Aa	INTFYANPIKNTLQSELTDYDIDQAAANLVECISEELYPKEKMMLLDEVKNKQLSQSRNV	60
cry4Ba	VNALFTNDAKDALNIGTTDYDIDQAAANLVECISEELYPKEKMMLLDEVKNKQLSQSRNV	60
Cry1A	-----LKTDTVTDYHIDQVANLVECLSDEFCLDEKQELSEKVKHAKRLSDERNL	48
Cry4A	-----LQSELTDYDIDQAAANLVECISEELYPKEKMMLLDEVKNKQLSQSRNV	48
Cry5A	-----LAHNVSDHDIEEVVLKVDALSDEVFGDEKKALRKLNVQAKRLSRARNL	48
Cry7A	-----LQKDVTDYKVDQVSIQVDCISGDLYPNEKRELQNLVKYAKRLSYSRNL	48
Cry8A	-----LRPGVTDYEVNQAAANLVECLSDDLYPNEKRLLFDAVREAKRLSGARNL	48
Cry9A	-----LQVNVKDYQVDQAAMLVSCLSDEQYGYDKMMLLEAVRAAKRLSRERNL	48
Cry12A	-----LASNVSDYWIEQVVMKVDALSDEVFGKEKKALRKLNVNWKRLSKIRNL	48
Cry14A	-----LALKVSSYQINQVALKVMALSDEKFCEEKRLRLKLVNKANQLLEARNL	48
Cry21A	-----LAHTVSDYKIDQVVLKVNALSDDVFGVEKKALRKLNVQAKWLKARNV	48
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axmi-008	LQNGDFS---GNDWTFGNDIIIGSNNPFIKFKFLQMRGARDIYGTLPPTYICQKIDESKL	117
cry19Aa-orf2	LQNGDFEDL-FSGWTTSNQMSIQADNATFKGNYLHMSGARDIYGTIFPTYIYQKIDESKL	119
crybun2orf2	LYNGDFEDV-SNGWKTSENTIEIRENSPVFKGHYLMFGARDIDGTLPPTYIYQKIEESKL	116
crybun3orf2	LQNGDFGDFYGNWKFNNIIIGSNNSIFKGNFLQMSGARDIYGTIFPTYIYQKIDESKL	117
cry4Aa	LQNGDFESA-TLGWTTSDNITIQUEDDPIFKGHYLMMSGARDIDGTIFPTYIFQKIDESKL	119
cry4Ba	LQNGDFESA-TLGWTTSDNITIQUEDDPIFKGHYLMMSGARDIDGTIFPTYIFQKIDESKL	119
Cry1A	LQDPNF-----YPTYLYQKIDESKL	68
Cry4A	LQNGDF-----FPTYIFQKIDESKL	68
Cry5A	LIGGSF-----SPSYIFQKVEESKL	68
Cry7A	LLDPTF-----YPTYLYQKIDESKL	68
Cry8A	LQDPDF-----YPTYLYQKVEEGVL	68
Cry9A	LQDPDF-----YPTYIYQKVDASEL	68
Cry12A	LIGGNF-----HPSYIFQKVEESKL	68
Cry14A	LVGGNF-----FTSYAYQKIDESTL	68
Cry21A	LVGGNF-----YPSYAYQKIDESKL	68
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axmi-008	KPYTRYRVRGVFGSSKDLKLMVTRYGKEIDAIMNVPNDLAYMQPNPSCGDYRCES---	SS 174
cry19Aa-orf2	KPYTRYLVRGFVGSSKDLELMVMRYGKEIDTVMNVPNDIPYVPSMPVCNELYDGOQYPYN	179
crybun2orf2	KPYTRYRVRGVFGSSKDLKLMVTRYGKEIDAMMNVPNDLAYMQPTPSCGDSRCES---	SS 173
crybun3orf2	KPYTRYRVRGVFGSSKDLRLMVTRYGKEIDAMMNVPNDLAYMQPNPSCGDSRCES---	SS 174
cry4Aa	KPYTRYLVRGFVGSSKDVELVVSRYGEEIDAIMNVPADLNYLPSTFDCEGS-----	N 172
cry4Ba	KPYTRYLVRGFVGSSKDVELVVSRYGEEIDAIMNVPADLNYLPSTFDCEGS-----	N 172
Cry1A	KAYTRYQLRGYIEDSQDLE-----	87
Cry4A	KPYTRYLVRGFVGSSKDVE-----	87
Cry5A	KPNTRYIVSGFIAHGKDL-----	87
Cry7A	KEYTRYKLKGFIESSQDLE-----	87
Cry8A	KPYTRYTLTGFGVSSQGLE-----	87
Cry9A	KPYTRYRLDGFVKSSQDLE-----	87
Cry12A	KPNTRYTISGFIAHGEDVE-----	87
Cry14A	KPYTRYKVSGFIGQSNQVE-----	87
Cry21A	KSNTTRYTVSGFIAQSEHLE-----	87
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axmi-008	QYVSQGYPTP-TDGYAPDMYACPNIDRKHKVCHDRHPDFHIDTGEVDTNTNVGIDVLL	233
cry19Aa-orf2	RHVGYYNPMP-VSQPSYTSQCTPGKKHVCHDSHQFKFHIDTGEVDYNTNLGIWVLF	238
crybun2orf2	RYVSQGYPTPVTGDYASGRYACQSNRGTKHKVCHDRHPDFHIDTGELDTNTNVGIDVLF	233
crybun3orf2	QYVSQGYPTP-TDGYAPDRYACPSSSDKKHVMCHDRHPDFHIDTGELDTNTNVGIDVLF	233
cry4Aa	RCETSAVPAN-IGNTSDMLYSCQYDTGKKHVVCQDSHQFSFTIDTGALDTNENIGVWVMF	231
cry4Ba	RCETSAVPAN-IGNTSDMLYSCQYDTGKKHVVCQDSHQFSFTIDTGALDTNENIGVWVMF	231
Cry1A	-----HHFSLDIDVGCTDLNEDLGWVVF	111
Cry4A	-----HQFSFTIDTGALDTNENIGVWVMF	111
Cry5A	-----HFFSYSIDVGALDLQANPGIEFGL	111
Cry7A	-----HSDSLNIDTGSINHNENLGIWVLF	111
Cry8A	-----HEFSLPIDIGELDYNNAGIWWGF	111
Cry9A	-----HEFSSYIDTGDNLSSVDQGIWEIF	111
Cry12A	-----HFFSYSIDVGSLEMEANPGIEFGL	111
Cry14A	-----HFFNYSIDVGALHPELNPGIEIGL	111
Cry21A	-----HFFSYSIDVGSLSQSDVNLGIEFGL	111

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axmi-008	KISNPDGYATVGNLEVEIEEGPLTGEALAHVKQKEKKWKQHMEKKRWETQQAYDPAKQAVD	293
cry19Aa-orf2	KISSPDGYATLDNLEVEIEEGPVRGEAVTHVKQKEKKWNQQMEKKRMETKRVYDRAKQAVD	298
crybun2orf2	KISNPDGYATLGNLEVEIEEGPLTGEALTHVKQKEKKWKQHMEKKRWETQQAYDPAKQAVD	293
crybun3orf2	KISNPDGYATLGNLEVEIEEGPLTGEALTHVKQKEKKWKQHMEKKRWETQQAYDPAKQAVD	293
cry4Aa	KISSPDGYASLDNLEVEIEEGPIDGEALSRVKHMEKKWNDQMEAKRSETQQAYDPAKQAVD	291
cry4Ba	KISSPDGYASLDNLEVEIEEGPIDGEALSRVKHMEKKWNDQMEAKRSETQQAYDPAKQAVD	291
Cry1A	KIKTQDGHARLGNLEFLEEKPL-----	133
Cry4A	KISSPDGYASLDNLEVEIEEGPI-----	133
Cry5A	RIVNPTGMARVSNLEIREDRPL-----	133
Cry7A	KISTLEGYAKFGNLEVIDGPV-----	133
Cry8A	KITDPEGYATLGNLELVEEGPL-----	133
Cry9A	KVRTTDGYATLGNLELVEVGPL-----	133
Cry12A	RIVKPTGMARVSNLEIREDRPL-----	133
Cry14A	KIVQSNGYITISNLEIIEERPL-----	133
Cry21A	RIAKPNGFAKISNLEIKEDRPL-----	133

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